

37 NONTYPING REPERFORATOR

LUBRICATION

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1.03 References made to left or right, front or rear, and top or bottom apply to the reperforator in a normal operating position with the selector mechanism on the right and the function mechanism on the left.

1.04 Lubricate the reperforator before placing it into service and just prior to putting it into storage.

1.05 After approximately 200 hours or four weeks of operation (whichever comes first), relubricate the reperforator to make certain no points have been missed. Thereafter, lubricate the reperforator according to the following schedule:

| <u>Operating<br/>Speed (WPM)</u> | <u>Lubrication<br/>Interval</u> |
|----------------------------------|---------------------------------|
| 100                              | 2000 hours or 9 months *        |
| 150                              | 1500 hours or 6 months *        |

\*Whichever occurs first.

1. GENERAL

1.01 This section provides lubrication procedures for the 37 nontyping reperforator (Figure 1). It is reissued to incorporate engineering changes and comments received on Issue 1. Since only a limited distribution was made on Issue 1, marginal arrows have been omitted.

1.02 General areas of the equipment are shown by photographs. Specific points to receive lubrication are indicated by line drawings and descriptive text. The line drawings and descriptive text follow each photograph and are keyed to the photographs by paragraph numbers.

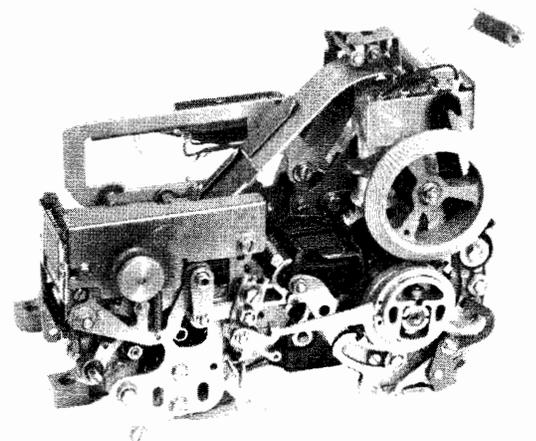


Figure 1 - 37 Nontyping Reperforator

SECTION 574-329-701TC

1.06 The following symbols are used in the lubrication instructions to indicate the type of lubricant:

| <u>Symbol</u> | <u>Meaning</u>                    |
|---------------|-----------------------------------|
| O             | Apply KS7470 oil.                 |
| G             | Apply KS7471 grease as specified. |
| D             | Apply no lubricants. Keep dry.    |

Note: In general, the symbols indicate the type of lubricant. Quantity of lubricant is normally given with the text associated with specific lubrication instructions. An exception to this method is where the exact number of drops of oil is specified. For example, O1, O2, O3, etc refer to 1, 2, 3, etc drops of oil.

1.07 The following general instructions supplement the specific lubricating points illustrated on subsequent pages:

- Apply one drop of oil to all spring hooks.
- Apply a light film of oil to all cam surfaces.
- Apply a thick coat of grease to all gears.
- Saturage all felt washers, oilers, etc.
- Apply oil to all pivot points.
- Apply oil to all sliding surfaces.

Note: Ordering information for lubricants and a complete list of tools and materials available to maintain the reperfector is given in Section 570-005-800TC.

1.08 Oil should be applied by means of an oiler. Overlubrication which would allow oil to drip on other parts should be avoided.

Wipe off excess amounts of lubricant. Capillary action and vaporization tend to keep a film of oil on the parts. This prevents rusts and provides sufficient lubrication to many points.

**CAUTION: SPECIAL CARE SHOULD BE TAKEN TO PREVENT ANY LUBRICANT FROM GETTING BETWEEN ELECTRICAL CONTACTS.**

Note: Protective pad TP124828 is available to protect furniture and floor coverings from oil, grease and dirt while lubricating the reperfector.

1.09 Gold-plated contacts are used in this equipment. The recommended cleaning interval for gold-plated contacts in special low-level applications (less than 250 microwatts and having an average weekly use of 60 hours) should not exceed 90 days. This interval may be reduced dependent on the signal circuit configuration, usage, and environment.

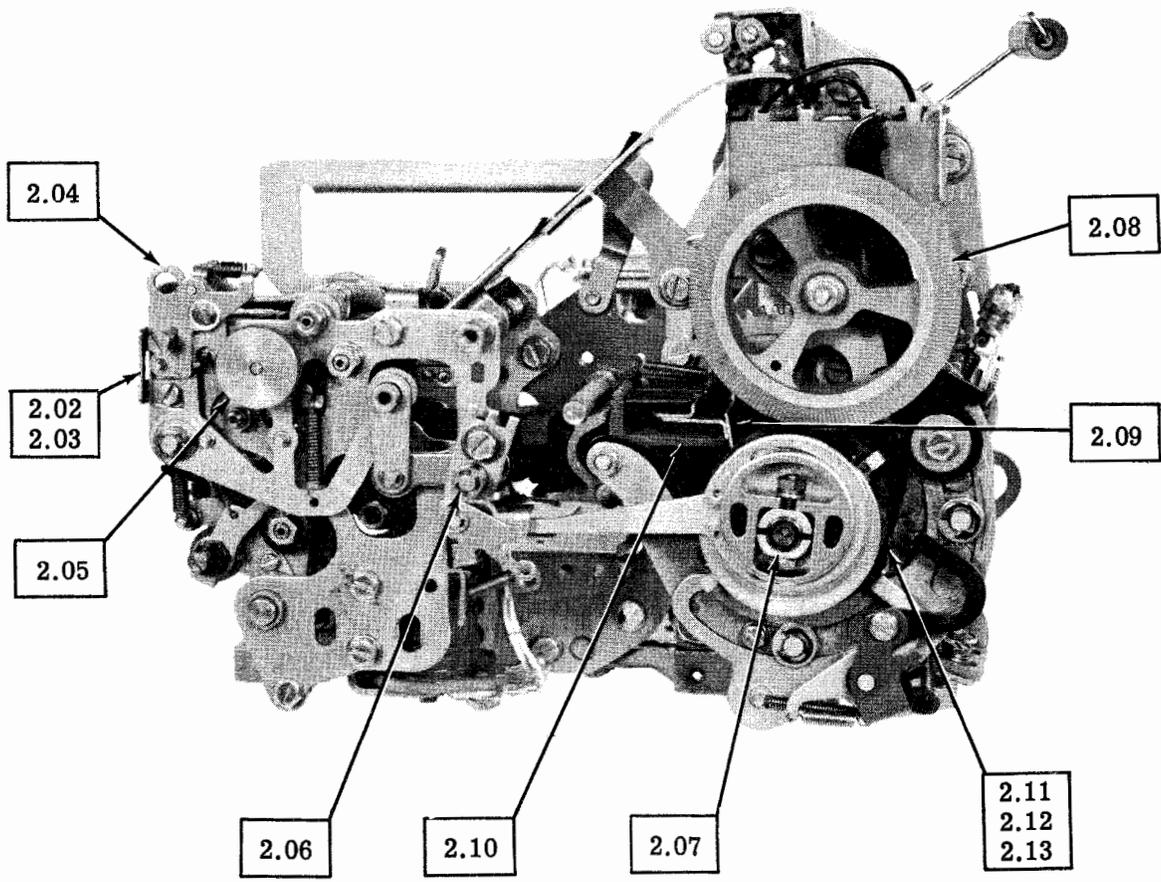
1.10 Use twill jean cloth (KS2423) to clean gold-plated contacts. Do not use burnishers, files, etc which will remove the gold plating.

**CAUTION: DO NOT USE GOLD-PLATED CONTACTS ALTERNATELY IN HIGH- AND LOW-LEVEL CIRCUITS BECAUSE HIGH-LEVEL OPERATION MAY DAMAGE THE GOLD PLATING AND IMPAIR THE CONTACTS USED IN LOW-LEVEL CIRCUITS.**

**CAUTION: REMOVE POWER BEFORE LUBRICATING THE EQUIPMENT.**

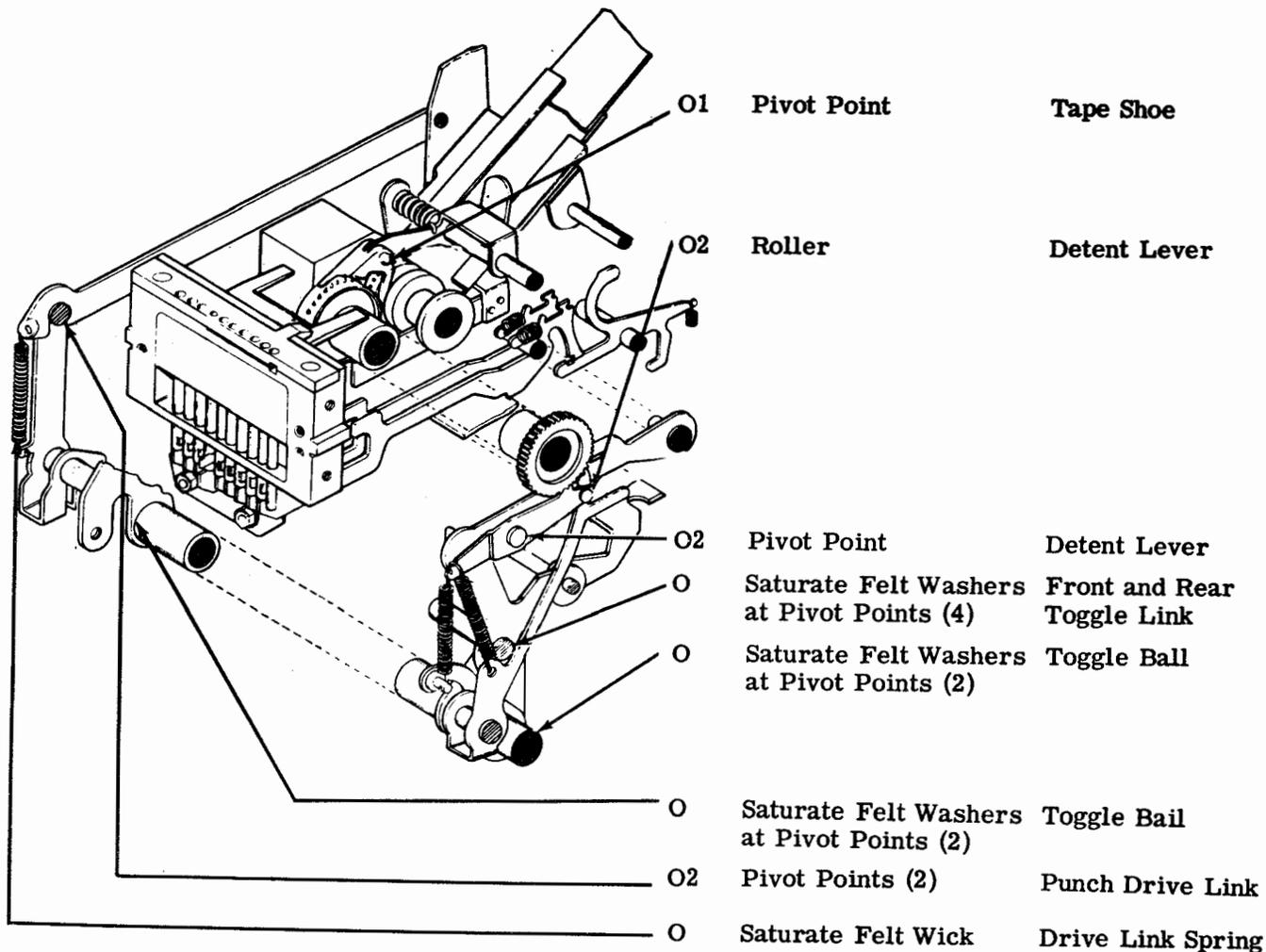
2. BASIC UNIT

2.01 Nontyping Reperforator (Right Side View)



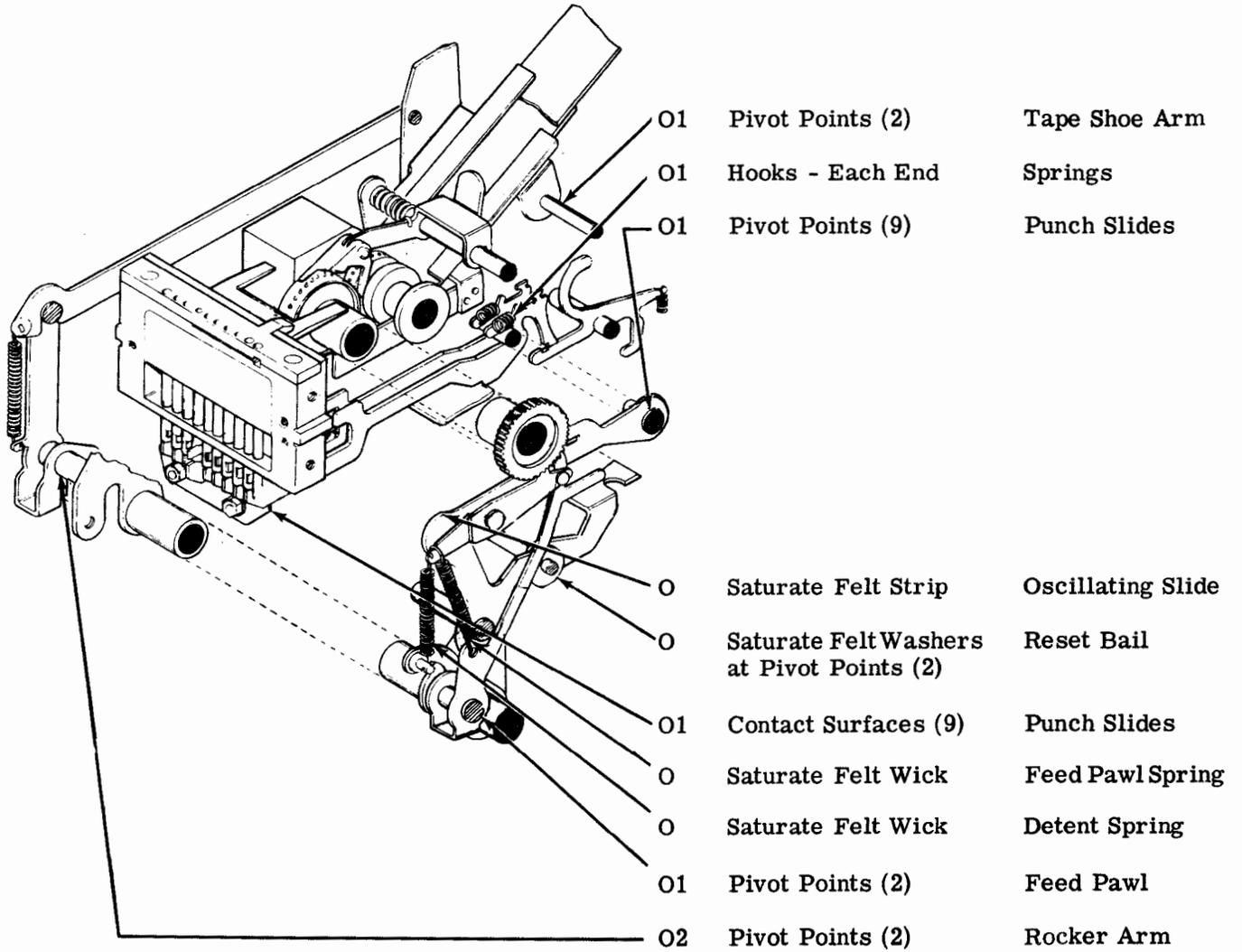
SECTION 574-329-701TC

2.02 Perforator Mechanism



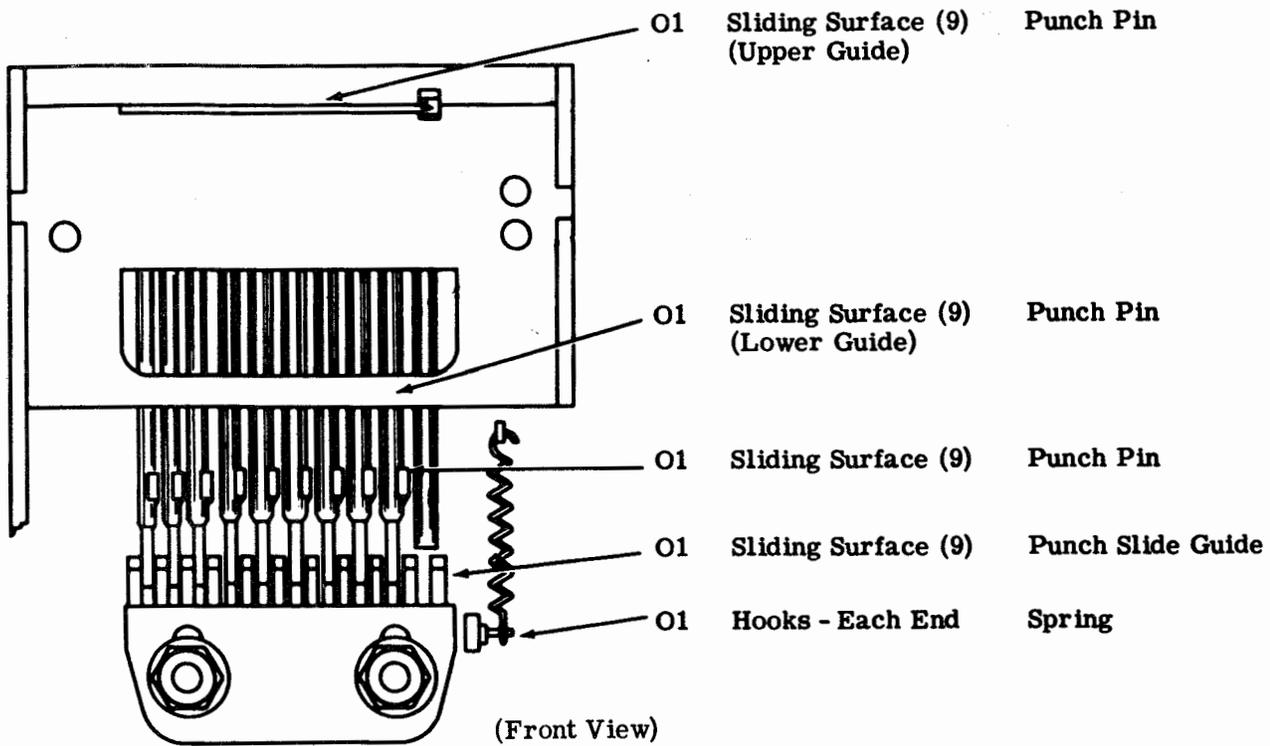
(Right Front View)

2.03 Perforator Mechanism (continued)

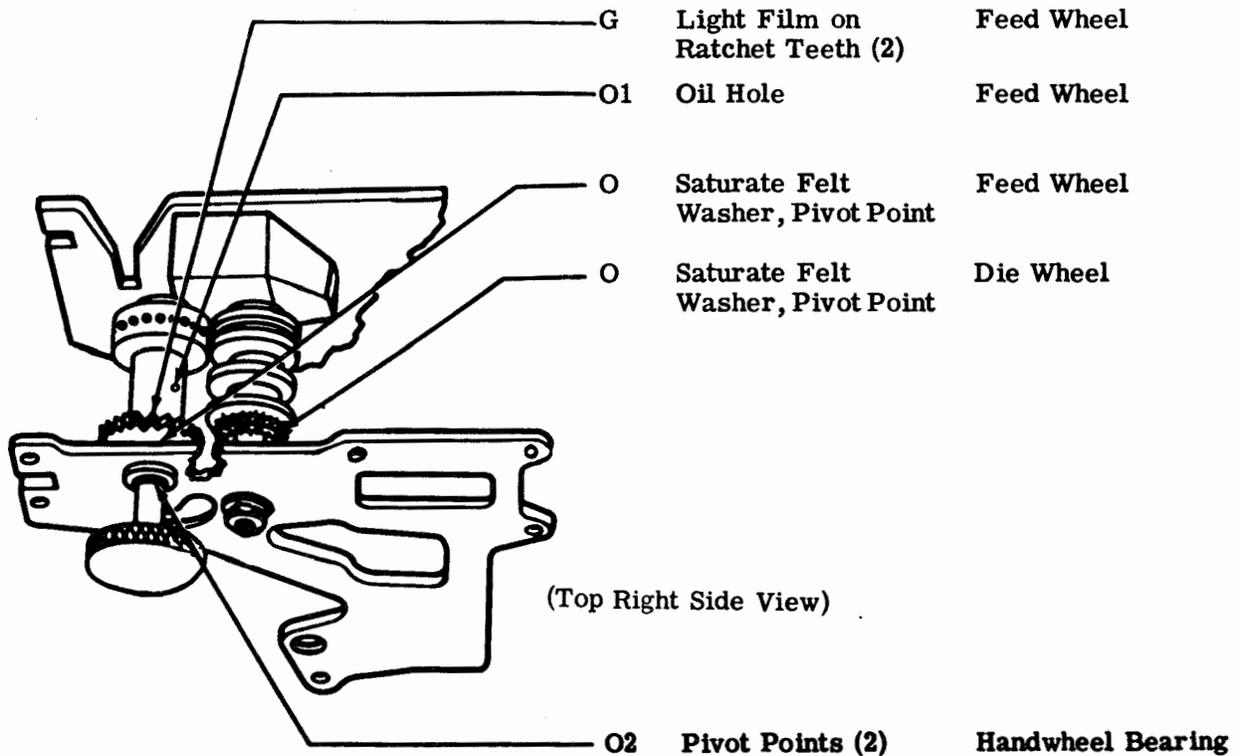


(Right Front View)

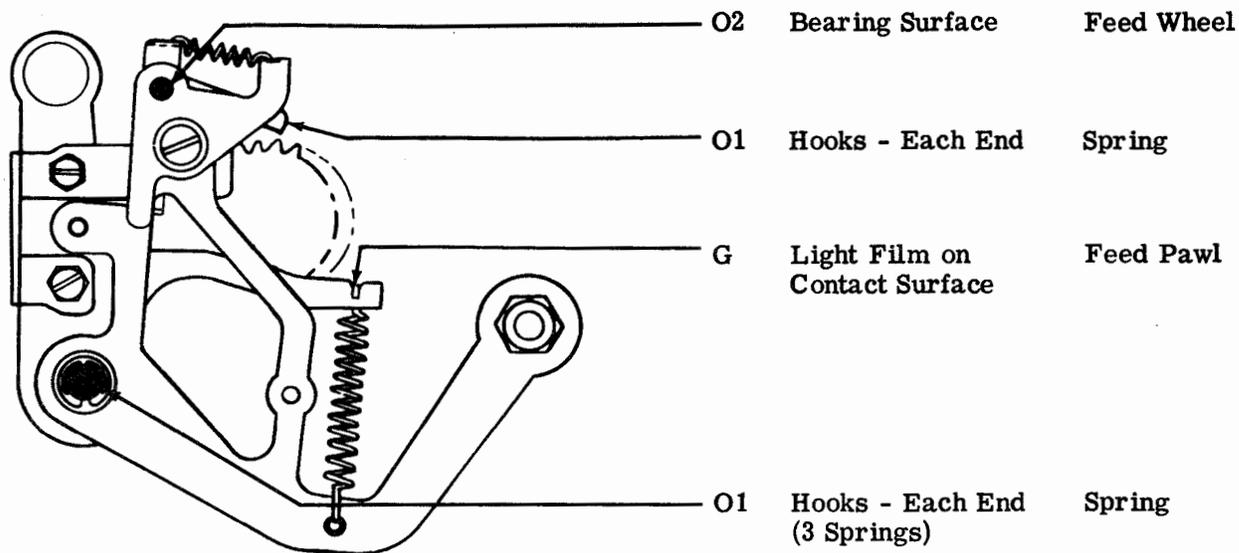
2.04 Punch Mechanism



2.05 Feed Mechanism

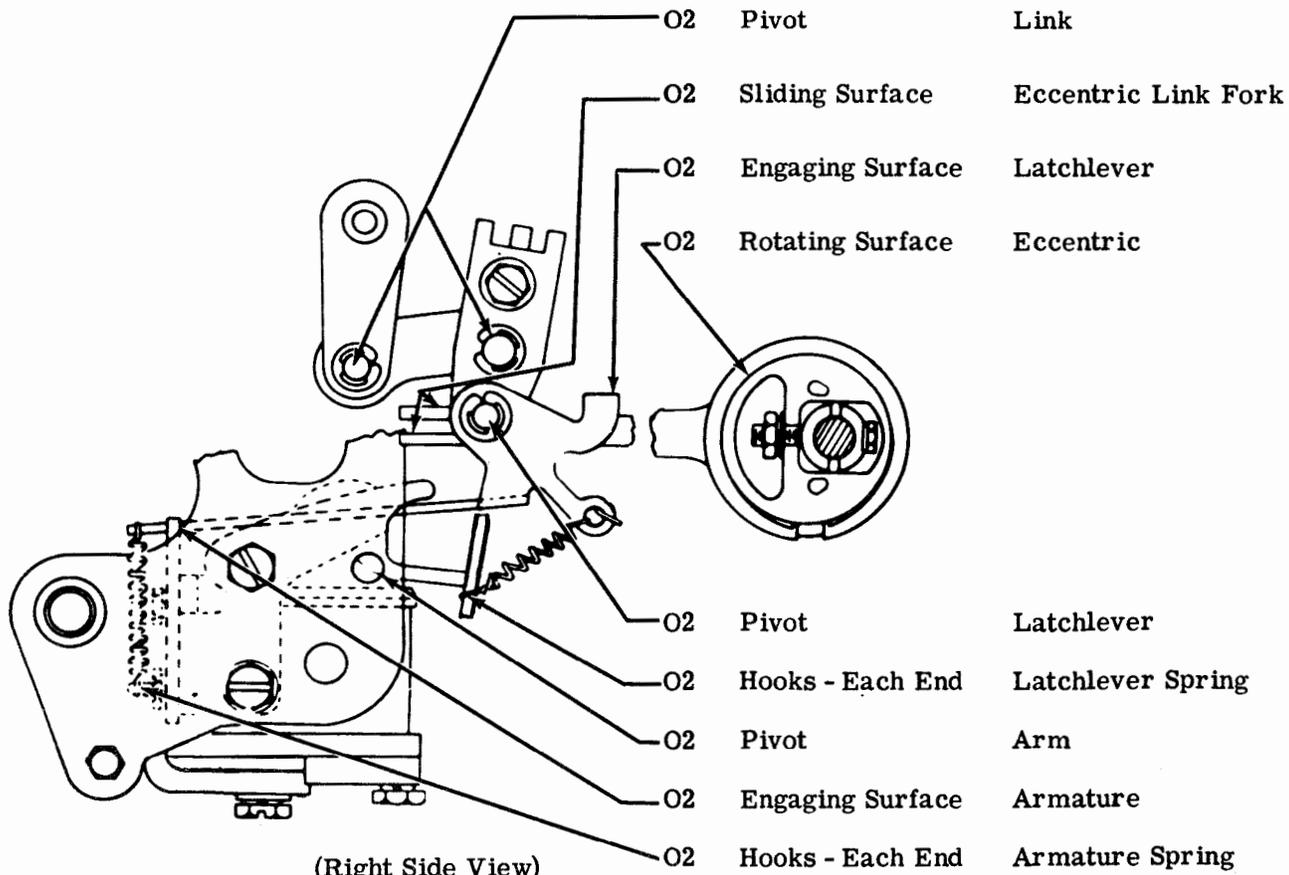


2.06 Backspace Mechanism



(Right Side View)

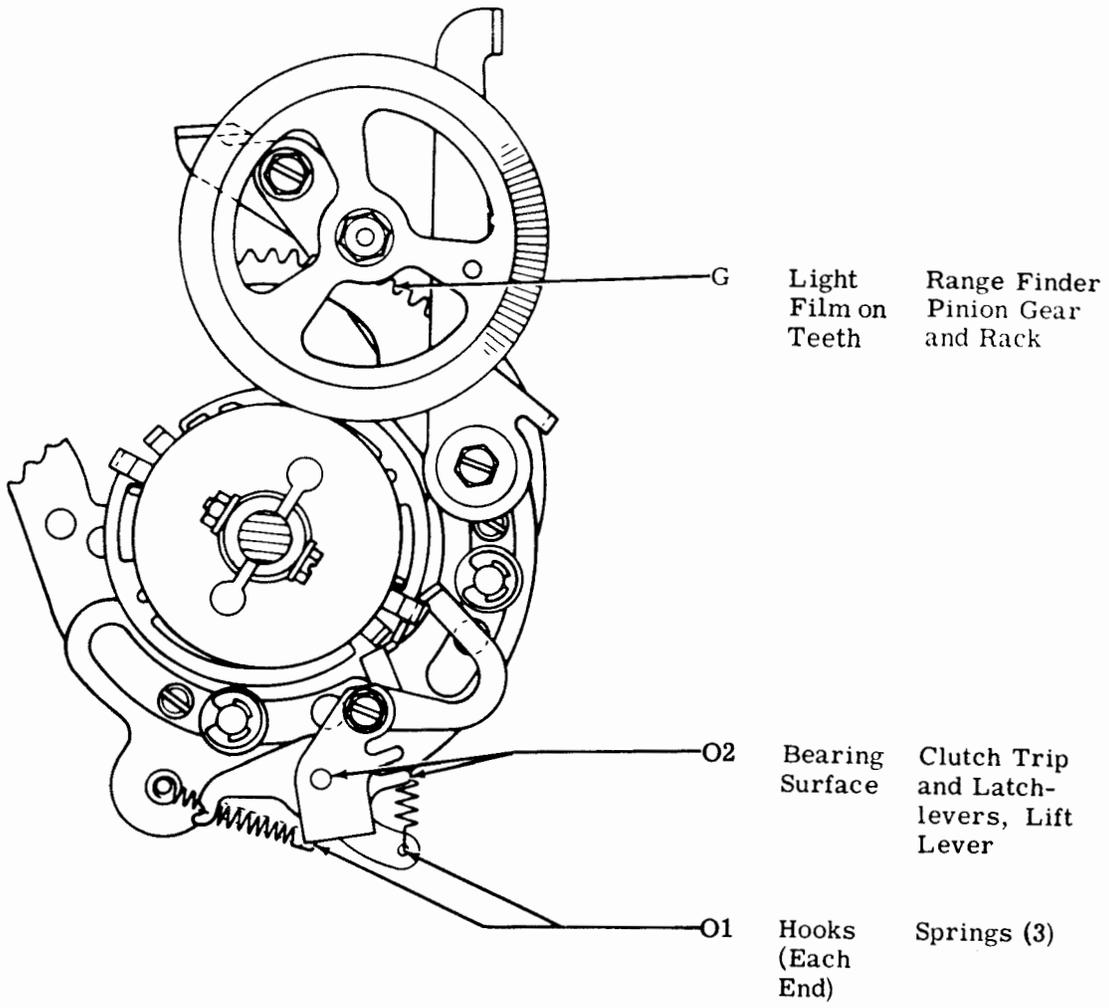
2.07 Backspace Mechanism (continued)



(Right Side View)

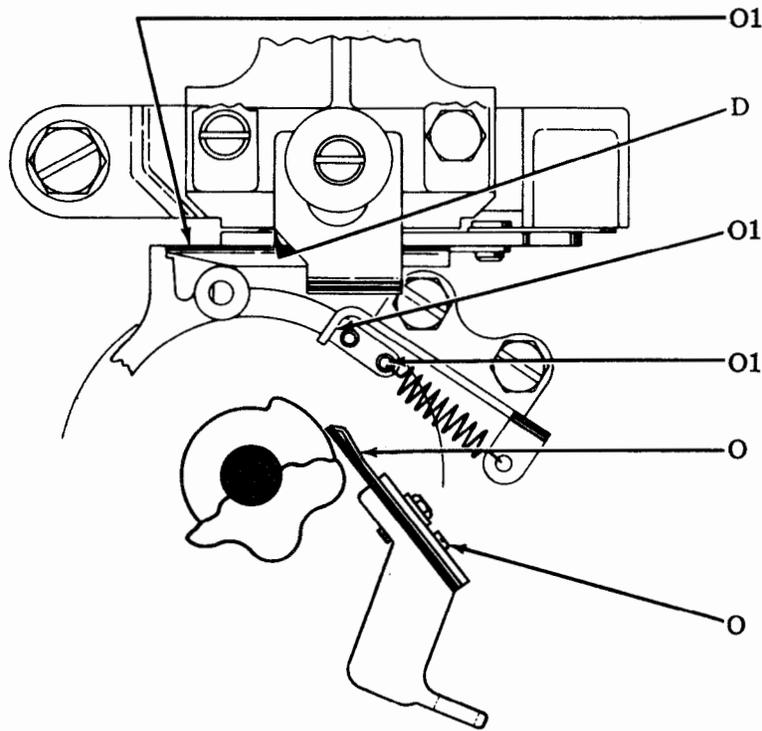
SECTION 574-329-701TC

2.08 Selector Range Finder and Levers



(Right Side View)

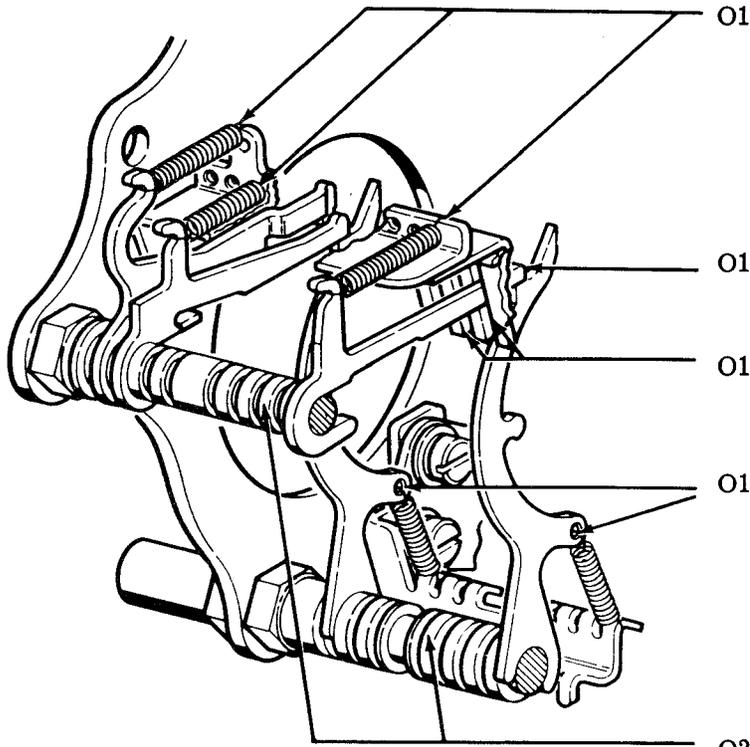
2.09 Selector Cam Lubricator and Marking Locklever



- |    |                  |                     |
|----|------------------|---------------------|
| O1 | Contact Surface  | Armature Extension  |
| D  | Contact Surface  | Front Button        |
| O1 | Guide Slot       | Marking Locklever   |
| O1 | Hooks (Each End) | Spring              |
| O  | Saturate Wick    | Cam Lubricator Wick |
| O  | Fill Reservoir   | Cam Lubricator      |

(Right Side View)

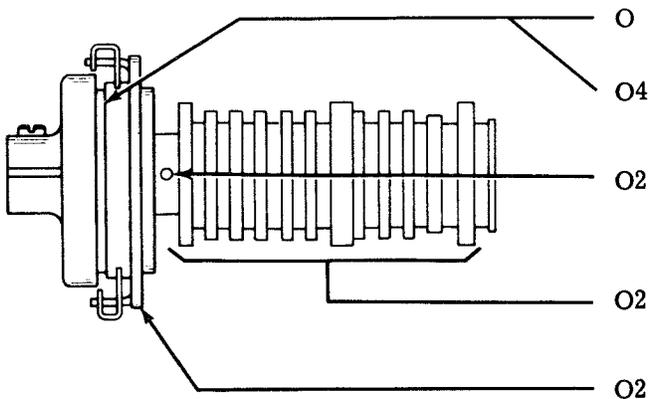
2.10 Selector Locklevers and Pushlevers



(Right Front View)

- |    |                        |   |
|----|------------------------|---|
| O1 | Hooks<br>(Each End)    | Springs (11)  |
| O1 | Engaging<br>Surfaces   | Pushlevers  |
| O1 | Guide Slots            | Start and Lock-<br>levers, Selector<br>and Pushlevers |
| O1 | Hooks<br>(Each End)    | Springs (10)  |
| O2 | Bearing<br>Guide Slots | Push and Selector<br>Levers Guide<br>Bearings         |

2.11 Selector Cam Clutch

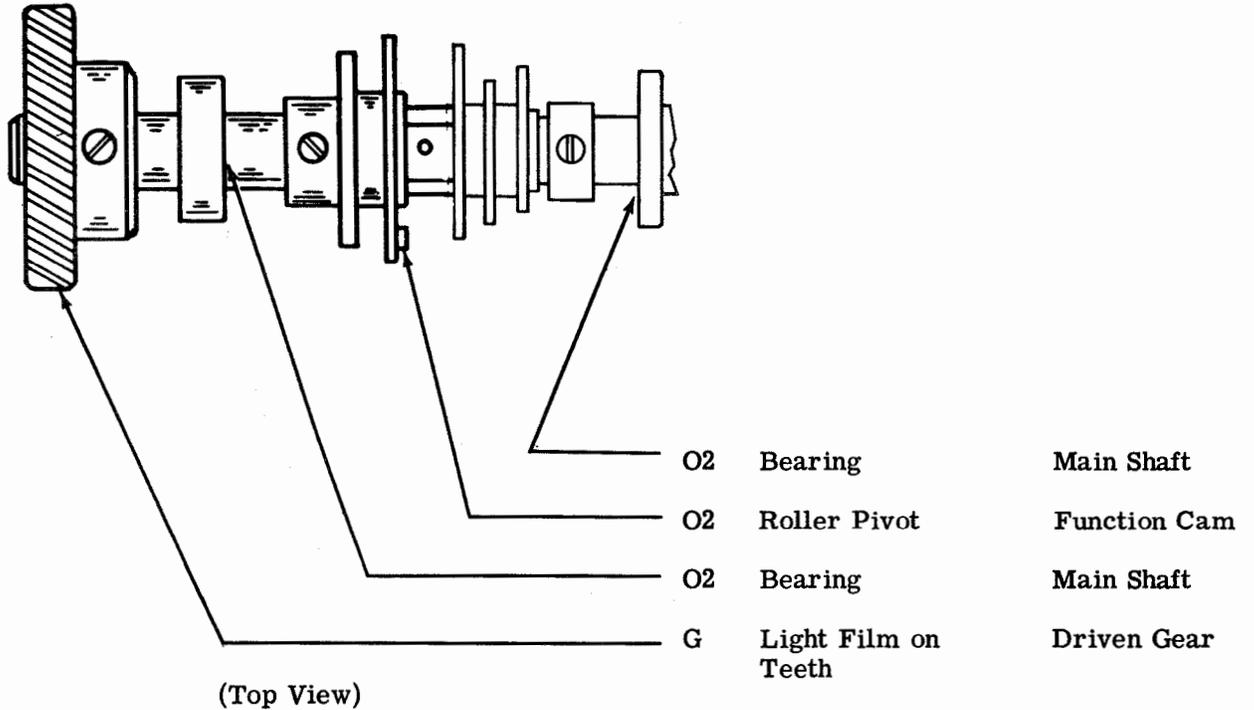


(Rear View)

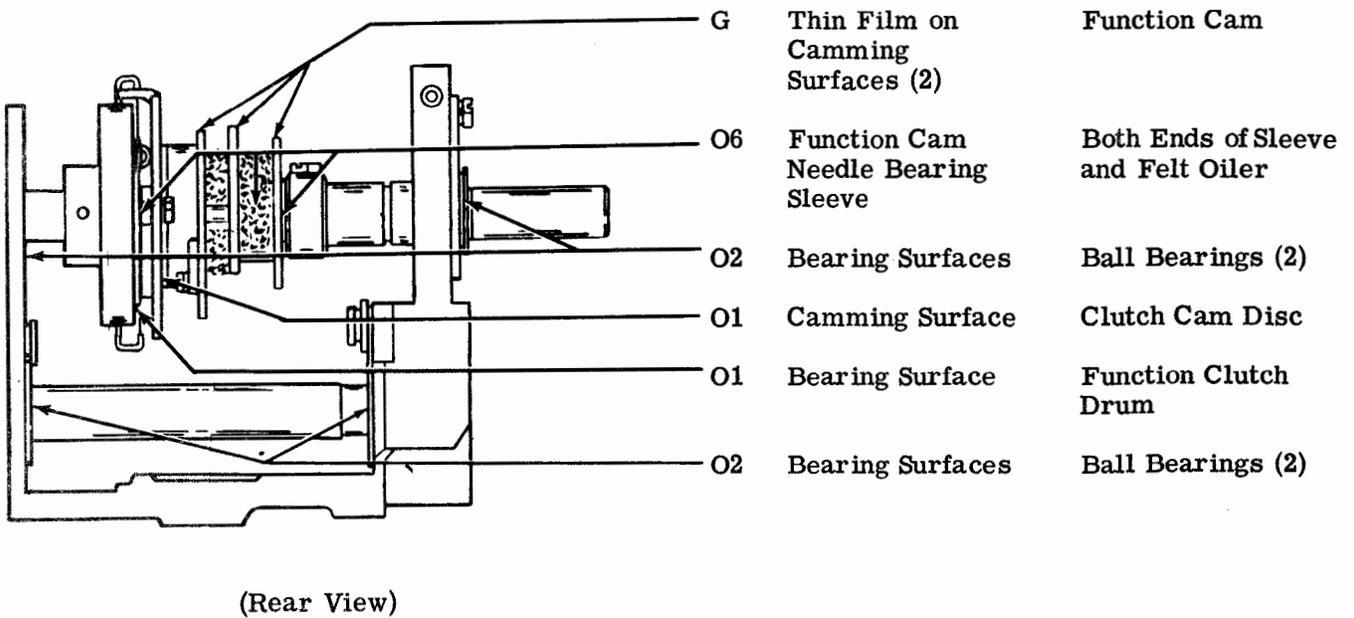
- |    |                       |                       |
|----|-----------------------|-----------------------|
| O  | Saturate Felt<br>Wick | Selector Clutch       |
| O4 | Internal<br>Mechanism | Selector Clutch       |
| O2 | Oil Holes (2)         | Cam Sleeve<br>Bearing |
| O2 | Camming<br>Surfaces   | Selector Cams         |
| O2 | Camming<br>Surfaces   | Clutch Disc           |

2.12 Main Shaft Mechanism

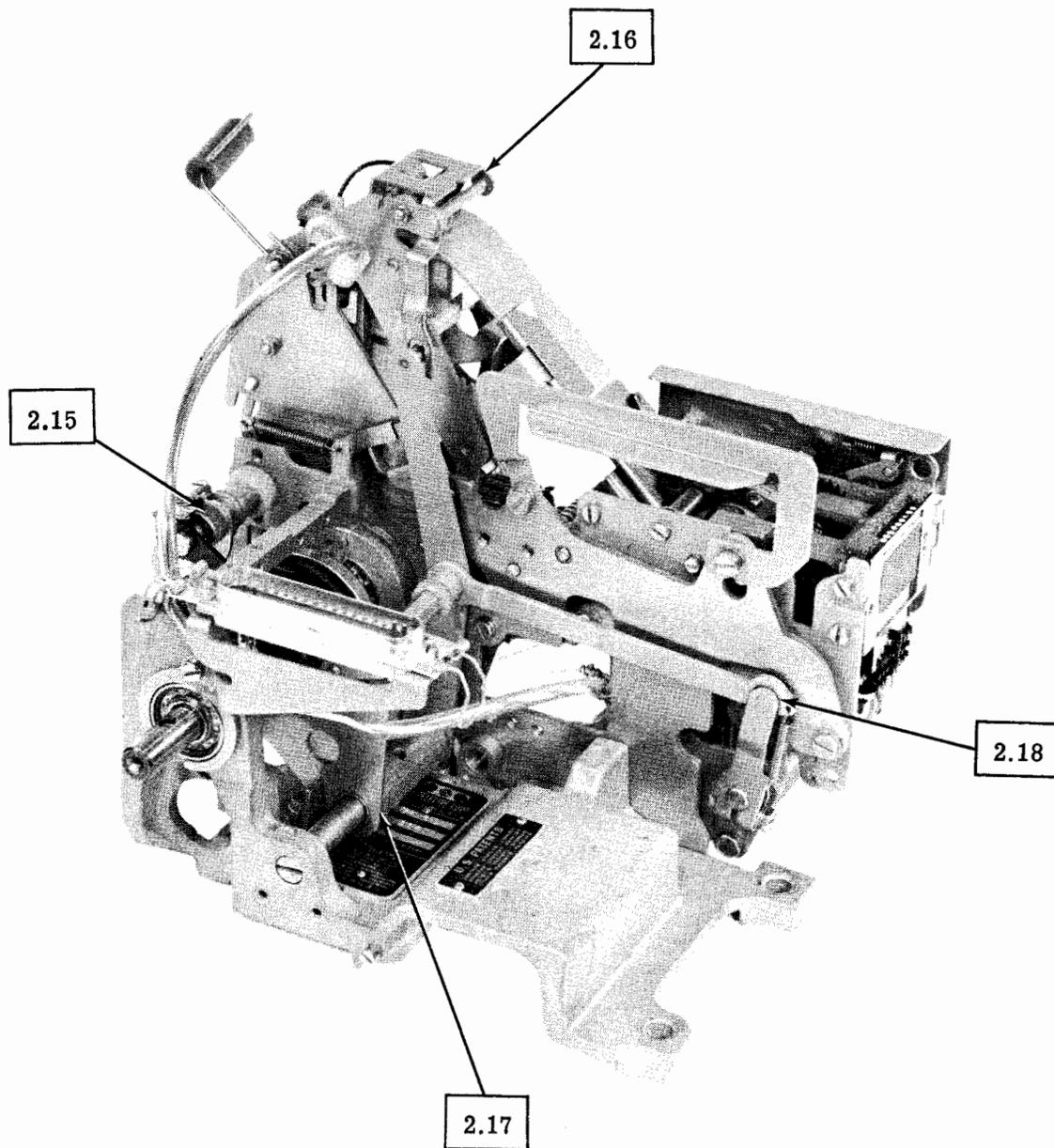
**Note:** If function cam needle bearings are disassembled at any time, repack bearings with grease (TP195298) or its equivalent.



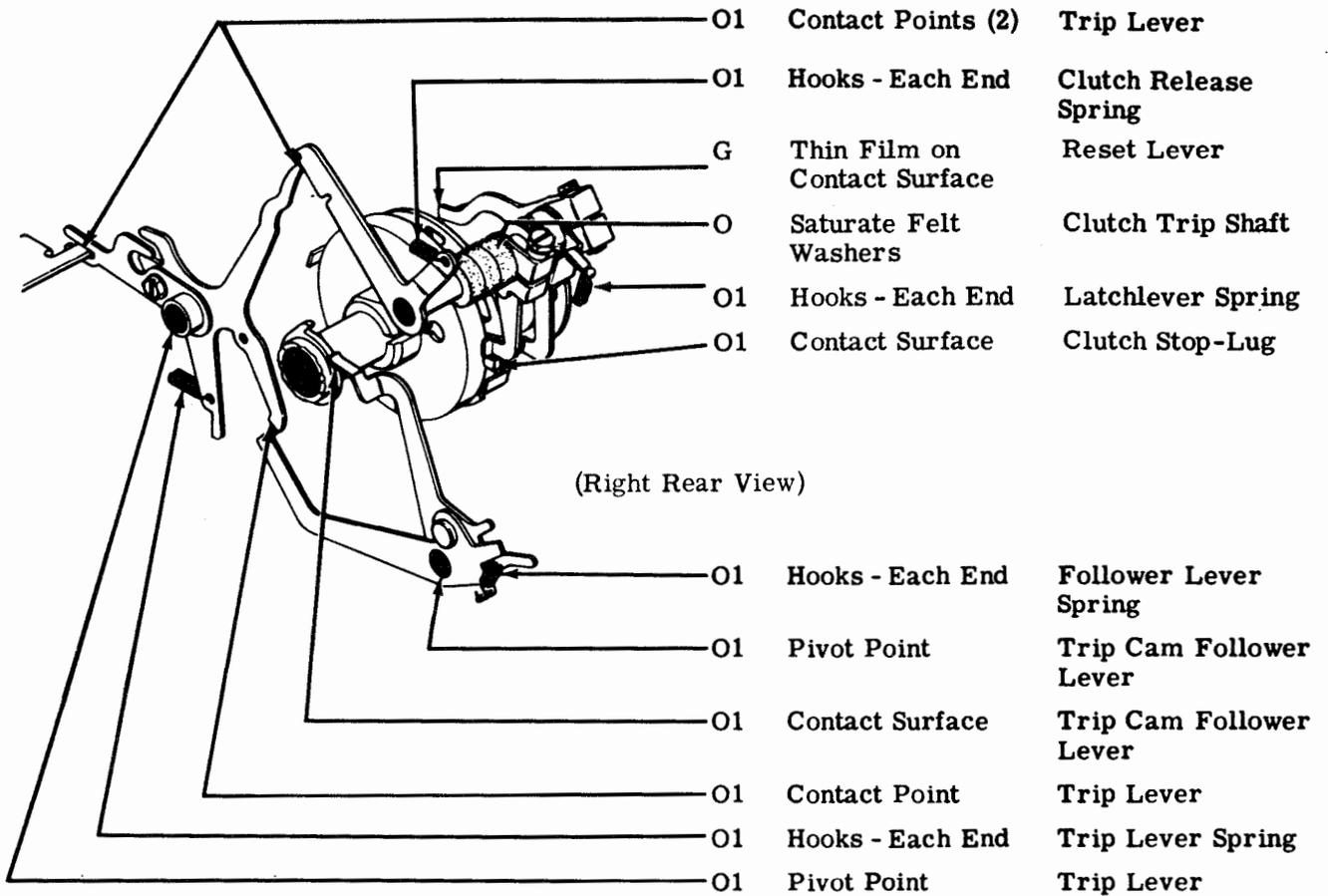
2.13 Main Shaft Mechanism (continued)



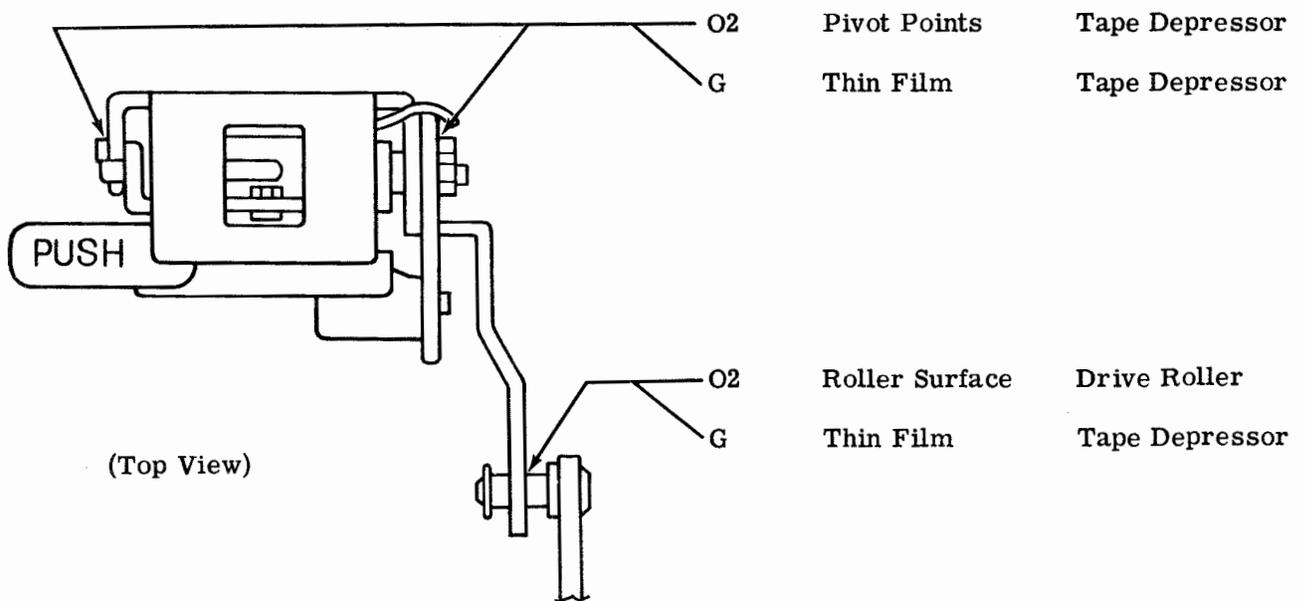
2.14 Nontyping Reperforator (Left Front View)



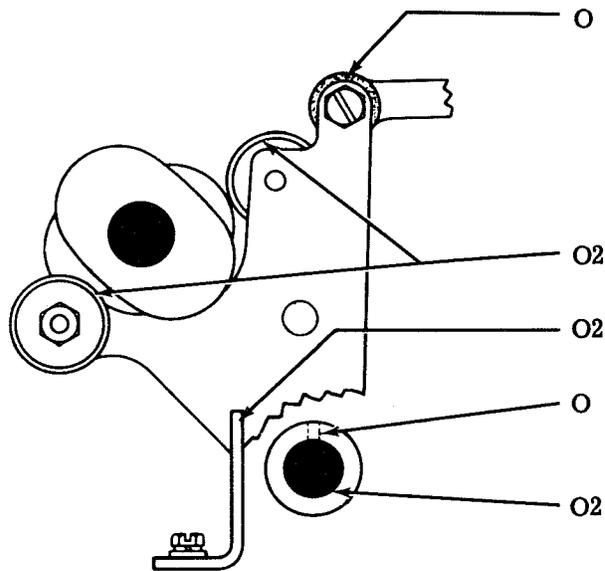
2.15 Function Cam-Clutch Trip Mechanism



2.16 Tape Depressor Mechanism



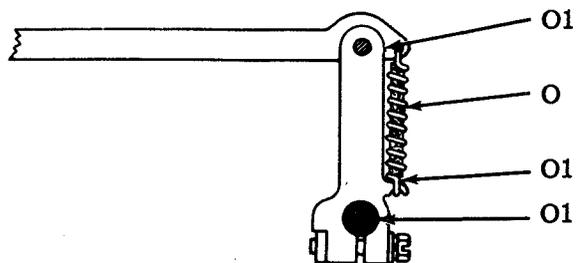
2.17 Rocker Bail Mechanism



(Left Side View)

- |    |                                   |                     |
|----|-----------------------------------|---------------------|
| O  | Saturate Felt Wick                | Drive Link Wick     |
| O2 | Rollers (2)                       | Rocker Bail Rollers |
| O2 | Guide Slot                        | Rocker Bail Guide   |
| O  | Saturate Felt Wick - Use Oil Hole | Rocker Bail Shaft   |
| O2 | Pivot                             | Rocker Bail Shaft   |

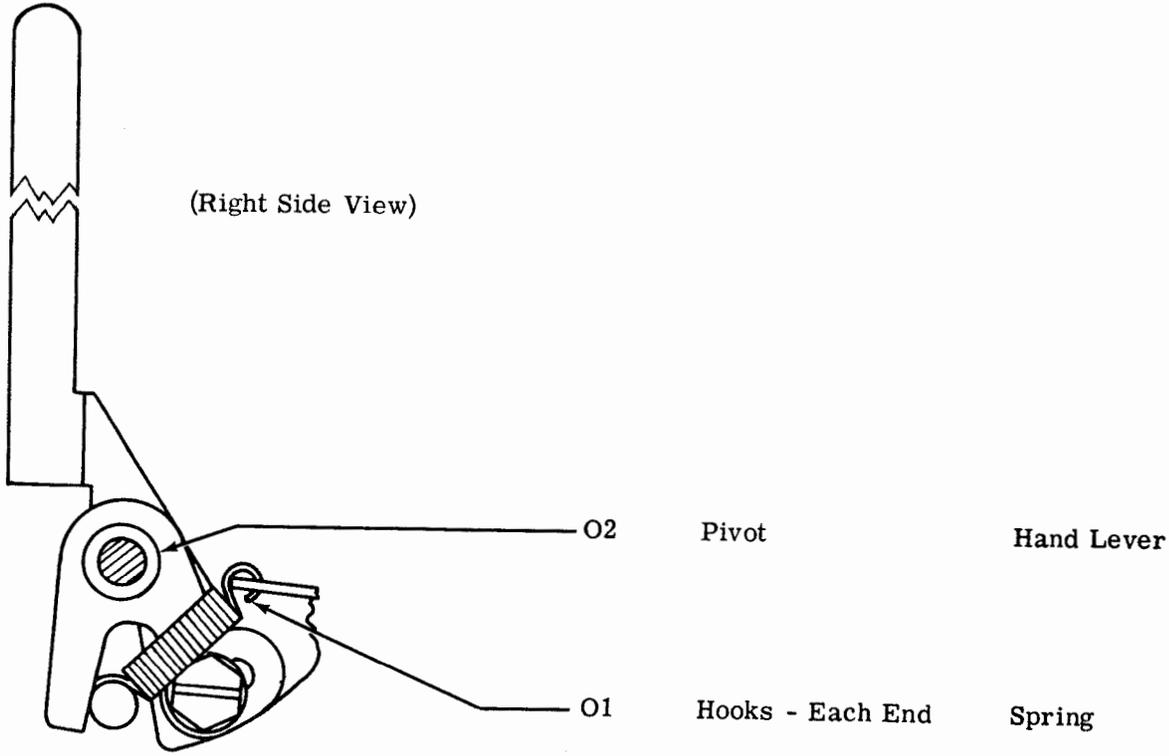
2.18 Rocker Arm



(Left Side View)

- |    |                    |            |
|----|--------------------|------------|
| O1 | Engaging Surface   | Rocker Arm |
| O  | Saturate Felt Wick | Rocker Arm |
| O1 | Hooks - Each End   | Spring     |
| O1 | Bearing Surface    | Rocker Arm |

2.19 Manual Interfering Tape Feedout Mechanism



2.20 Auxiliary Timing Contacts

